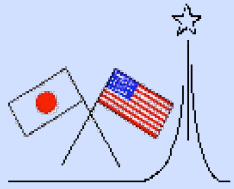


JUSTSAP Panel

Bringing Space Settlements Down to Earth



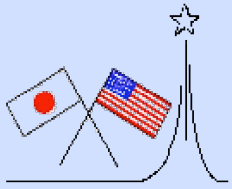
November 15, 2010
Frank Schowengerdt
JUSTSAP Vice-Chair



Why are we talking about this?

JUSTSAP Starts Stuff

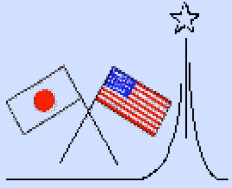
- Many conferences discuss space issues, but JUSTSAP starts projects and spinoffs.
- PISCES is one such spinoff, dedicated to research and education to sustain life on the Moon and beyond.
- Much work has been done by NASA and others learning how to live off the Earth, but much, much more remains to be done.
- We're proposing that JUSTSAP spin off a prototype settlement on Earth that can evolve to one located on the Moon.



Why do this?

Benefits of a Terrestrial Prototype of a Space Settlement Beyond LEO

- We can start now and keep the idea of a permanent human presence beyond LEO alive.
- Multinational and public/private partnership
- Leverage for affordability and sustainability
- Technology can be developed and other issues addressed in high-fidelity environment.
- Can incubate and support actual missions.



Panel Topics

Opportunities and Challenges

- **Scientific and Technological Challenges**
- **Legal and Regulatory Concerns**
- **International Collaboration**
- **Commercial Opportunities and Incentives**
- **Cost and Funding Options**
- **Precursor Terrestrial Analog Facilities in Hawaii**
- **Lessons Learned from Intelsat/ISS/Antarctica/PISCES**